MELCO

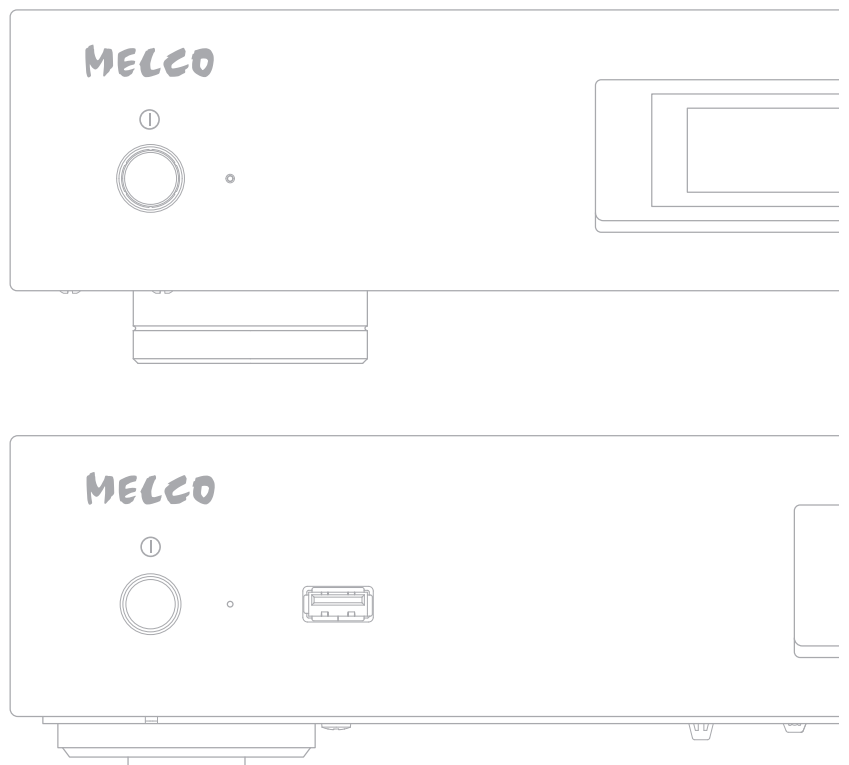**High-Res Digital Music Library**

N1/2 Series

Hardware Manual

Please make sure to read this manual before using and follow the procedures. If you have any inquiries about the product, contact the number on the warranty statement or the packing box. Do not discard this manual, the warranty statement, or the packing box.
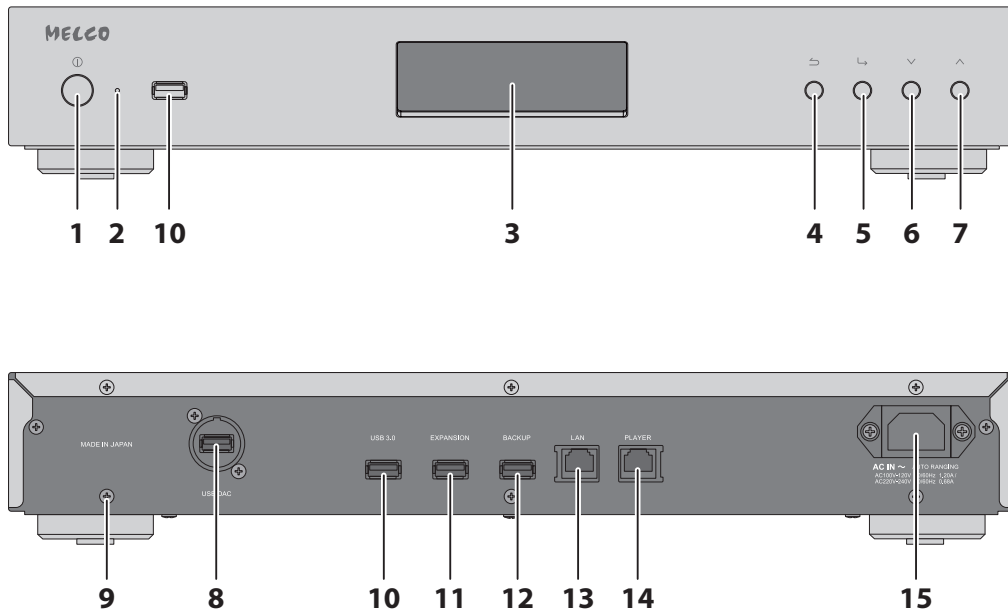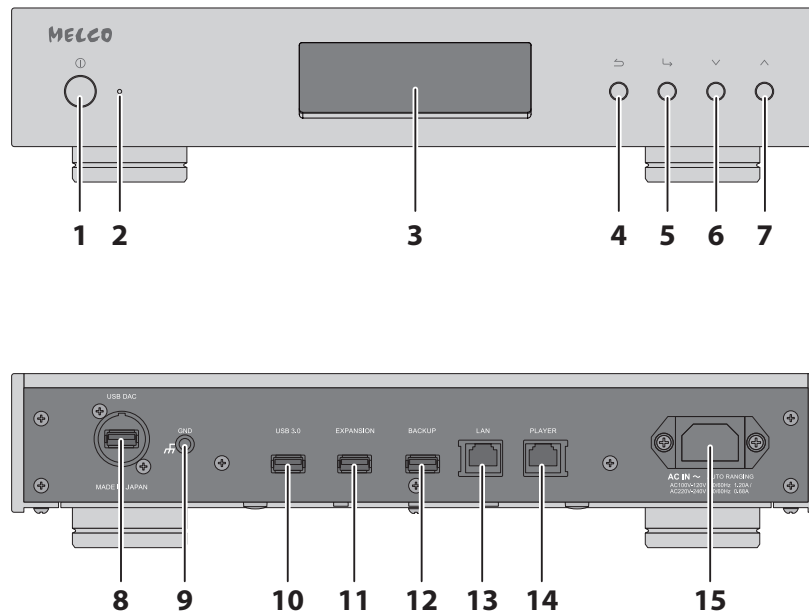
Contents

Diagrams

N1A/2

1 2 10   **3**   **4 5 6 7**

9   8   10 11 12 13 14   15

N1Z/2

1 2   **3**   **4 5 6 7**

8   9   10 11 12 13 14   15

1 Power Button (⏻)

Press to turn the power on and off.

2 Power LED

While the N1 is powered on, the LED will light up in blue. It will extinguish when powering off.

Note: The brightness of the power LED can be changed from *Settings - Power LED Brightness*.

3 Display

Displays the device's status and settings. In case of an error, displays the error message and code.

Note: The brightness of the display panel can be changed from *Settings - Brightness*. If the display brightness is set to *Dark Mode*, the display panel will be turned off.

4 Back Button (⮌)

Returns the window to the previous page. If you press and hold this button for 2 seconds while at the home screen, the display panel will be turned off.

5 Menu/Enter Button (↳)

Makes a selection.

6 Down Button (⋁)

Scroll down.
To initialize settings, press the power button while holding down this button.

7 Up Button (⋀)

Scroll up.

8 USB Port for USB-DAC

Use if connecting a USB-DAC device.

9 Ground Port (⏚)

Use a grounding cable (sold separately) to connect this port.

10 USB 3.0 Port [*]

Connect a compatible USB hard drive or optical drive for music playback, or a USB flash drive for updating the firmware.

11 USB Port for Expansion USB Drive [*]

Connect a compatible USB hard drive to expand the storage capacity.

12 USB Port for Backup USB Drive [*]

Connect a compatible USB hard drive to back up or restore the contents or settings of the N1.

13 Ethernet Port for Router or Hub [**]

Use an Ethernet cable to connect this port to a wireless router, hub, or switch on your network. Then you will be able to access the N1 from computers and mobile devices on your network.

14 Ethernet Port for Player [**]

This is a dedicated port for Network Audio Players. Use an Ethernet cable to connect this port directly to a Network Audio Player or AV receiver.

Note: If your Network Audio Player is directly connected to the player port, it will not be visible on the network when the N1 is powered off. If this is an issue, connect your Network Audio Player to the router or switch instead.
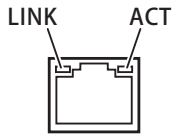
15 Power Connector

Use the included power cable.

[*] The first partition of a connected USB drive is mounted. Additional partitions are not recognized. To utilize the whole capacity, connect the USB device to the expansion or backup port, navigate to *Settings - Drive*, select *Format*

Expansion Drive or *Format Backup Drive*, then select *Erase All Data* to format all partitions. Please note that all data currently on the drive will be removed with this operation.

** When the Ethernet cable is connected to the network, the link LED will glow. The act LED shows network activity. On the display panel, go to *Settings - Rear Side LED* and set to "Off" to extinguish both LEDs.

LINK   ACT

Turning the N1 On and Off

Powering On

1 Connect the power cable to the power connector on the N1 and outlet. The grounding cable should be connected before connecting to the outlet.
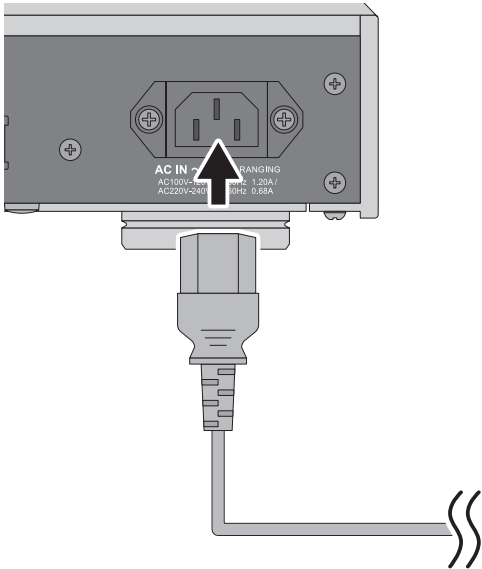
2 Press the power button.

3 The display panel will change as the sequence below. When the home screen is displayed, the boot process is finished. It will take about 20 seconds to complete.

Powering Off

1 Press the power button.

2 Confirm if the power LED is extinguished.

Notes:

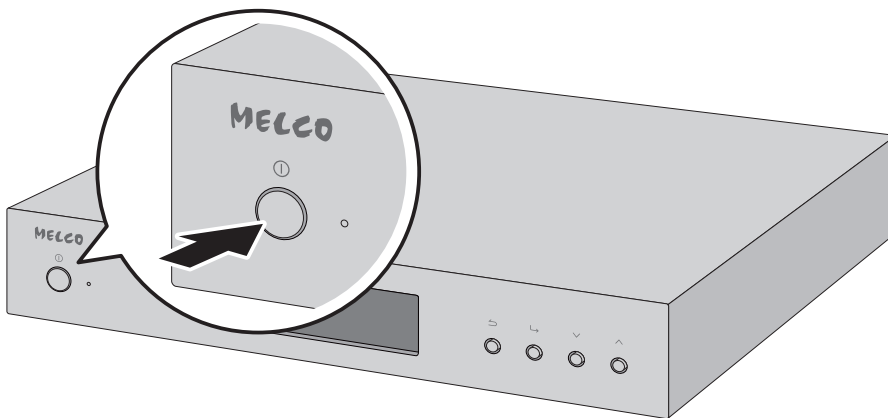- Make sure that the N1's power is turned off by following the procedure above before disconnecting the power cable. Disconnect the grounding cable after disconnecting it from the outlet.
- Do not disconnect the power cable without properly powering the N1 off first. You may lose music files or the N1 may malfunction. If using the N1 model with an SSD and power was turned off without following the procedure above, it may take about 1 to 4 minutes to complete the boot process during the next power-on. In such a case, wait until the boot process is complete.
- If connecting the N1 to an amplifier's AC outlet, do not configure the amplifier's power settings to shut down the N1 when the amplifier is powered down.
- To power on again, wait 3 seconds after the power LED extinguishes, then press the power button.

Peripheral Connections

Available Devices and Ports

To connect the N1 and other peripheral devices, refer to the diagram below.
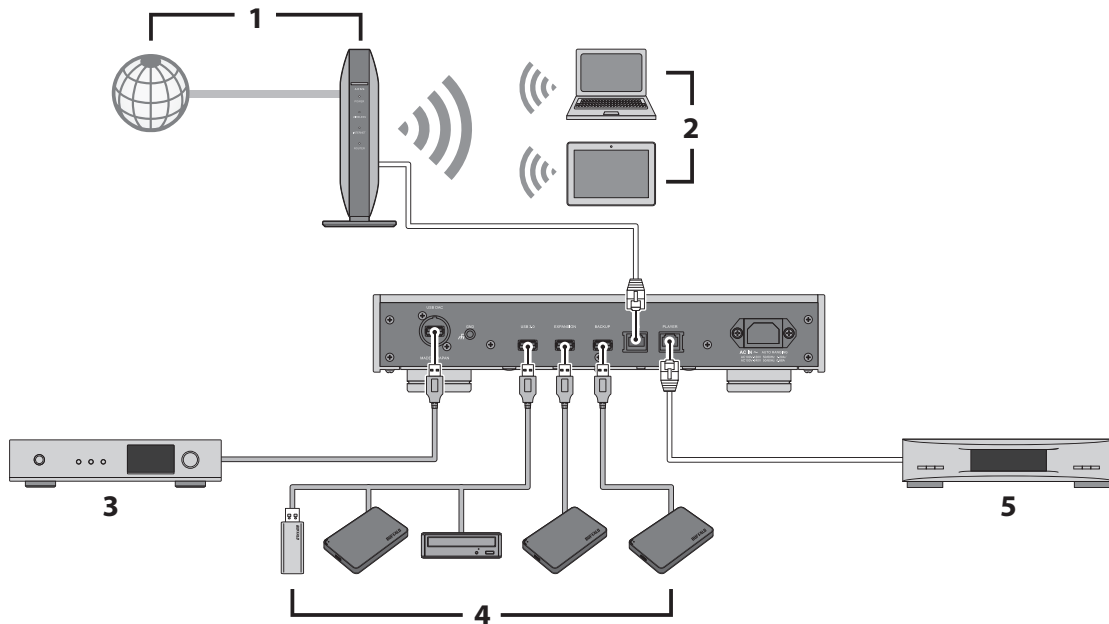
1 **Internet**

Required for downloading music files from a streaming site, importing files from the CD, and checking for new firmware release.

2 **Computers and mobile devices**

Computers support saving or playing music files. Mobile devices only support playing music files.

3 **USB-DAC**

Available as a player.

4 **USB Devices**

- USB Flash Drive - Can update the firmware or be configured as the import source device.
- External Hard Drive - Can expand the storage capacity or be configured as the import source device or a backup destination.
- Optical Drive (CD, DVD, or Blu-ray drive) - Can be configured as the import source device or to play CDs via a USB-DAC.

5 **Network Audio Player**

Available as a player.

Preparing Player

USB-DAC   Network Audio Player
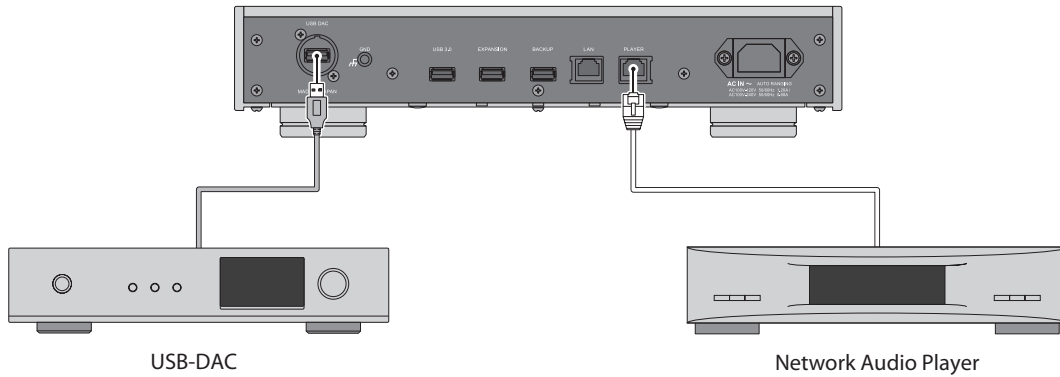
To use a USB-DAC as a player, connect the USB-DAC using the USB cable to the USB-DAC port. After turning the USB-DAC on, you may be able to play music files by changing the input to USB. You can use other ports than the USB-DAC port, but only one device will be detected if 2 or more USB-DAC devices are connected at the same time.

To use a Network Audio Player as a player, connect the Network Audio Player using the Ethernet cable to the player port. After turning the Network Audio Player on, you may be able to play music files by changing the input to music server or network. You can also use another player on the network rather than the player connected to the player port.

Default Settings and Product Specifications

Default Settings

The N1 is configured with the following default settings.

Display	Brightest
SMB File Sharing	On
Power LED Brightness	Bright
Rear Side LED	On
Auto Power Save	15 minutes **Note:** This setting may be configured to "Off" for some units.
Import Directory	All
Controller	HybridMode
DSF/DSDIFF Playback	DSD (DSD over PCM)
PrecisionStart Latency	0.75 second(s)
Import File Format	FLAC/No Compression
Read Retry Count	1
Advanced Drive Optimization	±0
Auto Download	Off
Player	Network Mode
LAN	DHCP
Friendly Name (Hostname)	N1-XXXX (X stands for the last four digits of MAC address)
Check for Updates at Start-Up	No

Specifications of N1A/2

Check melco-audio.com for information about the latest products and their specifications.

LAN Interface	Standards Compliance	IEEE 802.3ab (1000BASE-T), IEEE 802.3u (100BASE-TX), IEEE 802.3 (10BASE-T), AUTO-MDIX
	Data Transfer Rates	10/100/1000 Mbps (auto sensing)
	Number of Ports	2
	Connector Type	RJ-45 8-pin
USB Interface	Number of Ports	1 USB 3.0 port (front, type A), 3 USB 3.0 ports (rear, type A), and 1 USB 2.0 port for a USB-DAC device (rear, type A)
Internal Drive	3.5-inch hard disk drive (HDD) **Note:** If a drive malfunctions, contact our technical support for assistance.	
Dimensions (W x H x D)	435 x 70 x 352 mm; 17.1 x 2.8 x 13.8 in	
Weight	Approx. 6.5 kg; 14.3 lb	
Power Supply	AC 100–120 V 50/60 Hz, AC 220–240 V 50/60 Hz	
Power Consumption (Max.)	60 W	

Operating Environment	Temperature: 5–35°C; 41–95°F Humidity: 20–80% (no condensation)

Specifications of N1Z/2

Check melco-audio.com for information about the latest products and their specifications.

LAN Interface	Standards Compliance	IEEE 802.3ab (1000BASE-T), IEEE 802.3u (100BASE-TX), IEEE 802.3 (10BASE-T), AUTO-MDIX
	Data Transfer Rates	10/100/1000 Mbps (auto sensing)
	Number of Ports	2
	Connector Type	RJ-45 8-pin
USB Interface	Number of Ports	3 USB 3.0 ports (rear, type A) and 1 USB 2.0 port for a USB-DAC device (rear, type A)
Internal Drive	N1ZS/2: Audio-grade solid-state drives (SSD) N1ZH/2: 2.5-inch hard disk drive (HDD) **Note:** If a drive malfunctions, contact our technical support for assistance.	
Dimensions (W x H x D)	350 x 75 x 370 mm; 13.8 x 3.0 x 14.6 in	
Weight	N1ZS/2: Approx. 8.4 kg; 18.5 lb N1ZH/2: Approx. 8.1 kg; 17.9 lb	
Power Supply	AC 100–120 V 50/60 Hz, AC 220–240 V 50/60 Hz	
Power Consumption (Max.)	60 W	
Operating Environment	Temperature: 5–35°C; 41–95°F Humidity: 20–80% (no condensation)	

Regulatory Compliance Information

For Customers in the United States

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Only use the cables and accessories that are included in the package. Don't use other accessories or cables unless specifically instructed to in the documentation.

MET

The socket-outlet shall be installed near the equipment and shall be easily accessible.

Label Information

∿	Alternating current

Proposition 65

WARNING:

This product and its components contain chemicals known to the State of California to cause cancer and birth defects, or reproductive harm. Wash hands after handling.

For Customers in Europe

CB

Norsk

Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare.
For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet.

Svenska
Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrusningen och kabel-TV nätet.

Label Information

$\sim$	Alternating current

The socket-outlet shall be installed near the equipment and shall be easily accessible.

CE

Deutsch
Verwenden Sie ausschließlich die Kabel und Zubehörteile, die im Lieferumfang enthalten sind. Andere Zubehörteile oder Kabel dürfen nur dann verwendet werden, wenn dies in der Dokumentation ausdrücklich vorgeschrieben ist.
Verwenden Sie keine USB-Kabel, die 3 Meter lang oder länger sind, um USB-Geräte.

English
Only use the cables and accessories that are included in the package. Don't use other accessories or cables unless specifically instructed to in the documentation.
Do not use USB cables that are 3 meters or longer to connect USB devices.

Français
Utilisez uniquement les câbles et accessoires inclus dans ce package. N'utilisez aucun autre accessoire ou câble sauf instruction spécifique de la documentation.
Utilisez des câbles d'une longueur de moins 3 mètres pour connecter les périphériques USB à.

Norsk
Bruk kun kabler og tilbehør som er inkludert i pakken. Ikke bruk annet tilbehør eller kabler med mindre spesielt instruert til å gjøre det i dokumentasjonen.
Bruk ikke USB-kabler på tre meter eller mer for å koble USB-enheter til denne TeraStation-serien.

Svenska
Använd bara kablar och tillbehör som ingår i förpackningen. Använd inte andra tillbehör eller kablar om du inte får uttryckliga instruktioner om det i dokumentationen.
Använd inte USB-kablar som är 3 meter eller längre för att ansluta USB-enheter till den här TeraStation-serien.